

PRALL-TEC

More than just recycling



YOUR MATERIAL

OUR PT IMPACT CRUSHERS

Built for the toughest applications and tasks

EXPERIENCE MEETS INNOVATION

The Company

PRALL-TEC



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Prall-Tec GmbH, located in 49525 Lengerich, Germany was founded in May 2007 by Ralf Teepe, who has more than 40 years of experience in manufacturing recycling equipment. This knowledge, combined with new innovations, is reflected in the machines of Prall-Tec GmbH. In 2012, Frederik Teepe started at Prall-Tec, who is also the managing director today and is constantly expanding the development of new recycling machines and systems. The company's core business is the production of impact crushers, hammer mills, shredders and other recycling machines. The machines are sold individually to partners and customers, but it is also possible to plan and manufacture entire mobile or stationary systems.

It is not a question of company size that determines today's business, but rather the special know-how and experience of successful crushing and machine construction that make the difference. Due to the untiring drive for innovation of the managing directors Ralf and Frederik Teepe, a great knowledge of application and process technology has been built up, which we now want to expand further in America with our partner Orbcon. The cooperation with Orbcon is extremely efficient and through the constant exchange we can constantly respond to the requirements of the American market and optimize machines accordingly.

A MACHINE GEOMETRY FOR BEST CRUSHING RESULTS

40 years of experience - Made in Germany



The crusher box is built as a strong steel construction and reinforced on the outside. The folding crusher box part can be opened hydraulically to an above-average point what enables an easy access to the interior of the impact crusher for replacing spare parts like blow bars or impact plates. Due to the high weight of the impact aprons and rotor the oversize fraction is kept very low. At the same time foreign objects such as solid iron parts cannot cause any damage to the machine

because of the high push back opening of the impact devices with at least 280 mm (11") or up to 600 mm (23"). The rotor, the impact aprons and the optional grinding unit consist of a heavy welded steel construction and allow the use of standardized casted or Hardox spare parts. The field of application of the PT impact crushers ranges from natural stone to the recycling of reinforced concrete, IBA and steel slag.

OUR EXPERIENCE - YOUR SUCCESS

40 years are in the detail



Up to
827
Troughput (tn)

Up to
76
Weight (tn)

Up to
55"
Feed size

Through continuous further development of the crusher geometries, we are today offering probably one of the most sophisticated impact crushers on the market. For tough recycling operation we count on high evasion paths of the impact aprons and on a rotor construction with reinforced support bars that are holding the blow bars. The design of

the impact crushers has been further optimized over many years over and over again and steadily improved with new and stronger materials. That way, several hundred impact crushers have been created and this is also reflected in today's work and quality.

OVERVIEW PRALL-TEC IMPACT CRUSHERS

A selection of our impact mills



PT 100-100



PT 100-70



PT 130-150



PT 110-100

IMPACT CRUSHER	THROUGHPUT PER HOUR	WEIGHT	MAXIMUM FEED SIZE	INLET SIZE	MINIMAL END PRODUCT SIZE
PT 80	20-77 tn	4-5,5 tn	300 mm (12")	550 x 520 x 1020 mm (22" x 20" x 40")	6 mm (¼")
PT 100	66-220 tn	6-18 tn	420 mm (17")	610 - 760 x 690 - 2020 mm (24"- 30"-80")	6 mm (¼")
PT 120	165-275 tn	20 tn	600 mm (23")	1080 x 1260 mm (43" x 50")	30 mm (1 ¼")
PT 130	198-385 tn	21-26,5 tn	600-900 mm (23"- 35")	900-1080 x 1360-2020 mm (35"-43" x 54"-80")	45 mm (1 ¾")
PT 160	386-826 tn	4,5-76 tn	900-1400 mm (35 7/16" - 55 1/8")	1135-1600 x 1520-2200 mm (45"-63" x 60"-87")	60 mm (2 ½")

THE LATEST GENERATION OF IMPACT CRUSHERS

Most versatile Impact Crusher for all applications

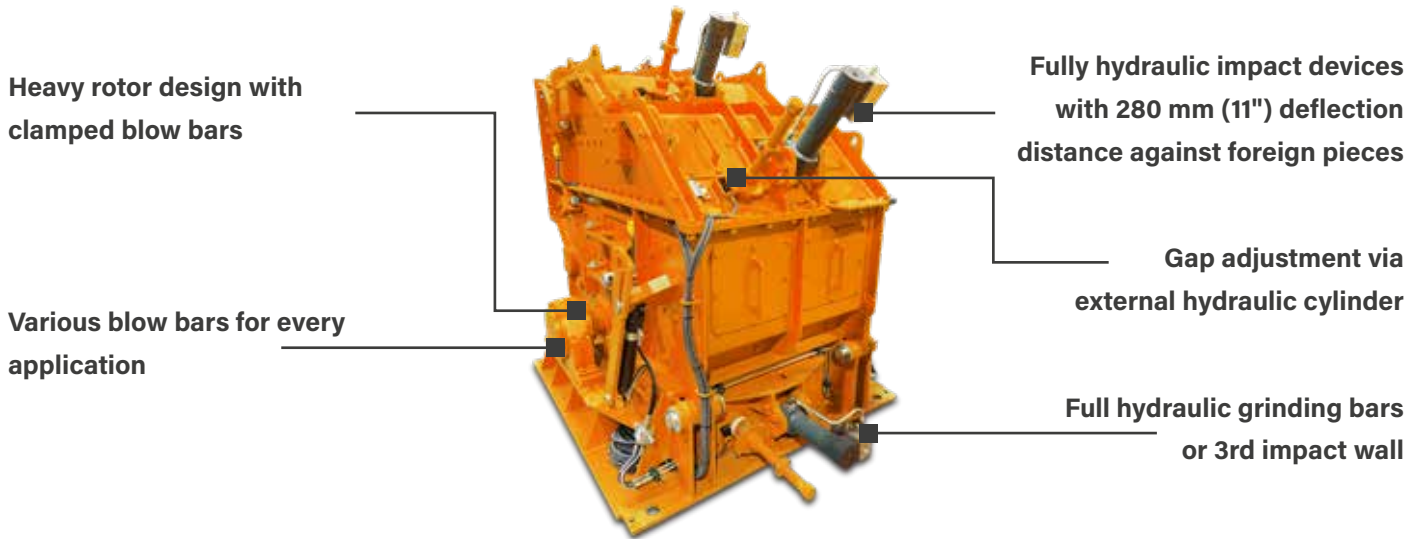


Due to the development of new blow bars and geometries in the machines, impact crushers are constantly finding new areas of application. In Europe, the impact crusher has become indispensable in recycling and is the most commonly used machine for separating mineral products and metals. This can be, for example, concrete-reinforced components with iron, steel slag from blast furnaces or IBA for the recovery of non-ferrous metals.

In addition, not only the separation plays a decisive role, but also the later properties of the end products for pressure load, particle shape and purity. All impact crushers are customized with a wide variety of built-in parts and are therefore designed for the customer-specific application. Many machines look similar, but the important things are in the details and the experience of 4 decades of crusher building.

ONE IMPACT CRUSHER - MANY POSSIBILITIES

A new and compact generation of impact crushers – the PT 110-100



We would like to introduce you to the advantages and innovations of the latest PT series with the new PT 110/100. With the new models, we can use a fully hydraulic impact apron adjustment or a conventional spindle technology and also remove each impactor individually with a screw-on housing cover in order to change the impactor plates safe and fast. Another innovation is the integrated inlet in the crusher, which saves a lot of space when space is limited on mobile machines or skid frame units. The innovative

housing design also enables us to build a more space saving impact crusher with the same rotor size. Even with the smaller outer dimensions, there are no restrictions on the deflection opening foreign materials or the throughput per hour. Furthermore, all PT impact crushers can be extended by optional grinding bars. In this way, a primary crusher quickly becomes a secondary crusher for the production of chippings or the best separation of IBA.

THROUGHPUT PER HOUR	WEIGHT PT 110-100	PRODUCT FEED SIZE	INLET SIZE	ELECTRIC DRIVE	END PRODUCT SIZE
Up to 220 tn	9,5 tn	Up to 700 mm (28")	770 mm x 1020 mm (30" x 40")	Up to 200 kW	0-5 / 10 / 16 / 20 / 32 mm (0-1/4" / 3/8" / 5/8" / 3/4" / 1 1/4")

TRACKED MOBILE PT IMPACT CRUSHER

Flexible, easy to transport and maximum output



With the mobile impact crusher, we are breaking new ground and can not only carry out tests with customers, but also offer a reliable special solution for various products. On the one hand, the machine can be used as usual in the recycling of C&D waste or concrete, but it also offers the possibility of processing slag and IBA mobile in the usual way that

is otherwise installed in a stationary plant. The system is equipped with its own power unit and generator which drives the rotor directly over a coupling and all other motors electrically. The output of the machine is specified as up to 200 tons in C&D waste and at IBA up to 100 tons per hour.

FIELDS OF APPLICATION

Your Material – Our Impact Crusher

Natural stone



Slag/IBA

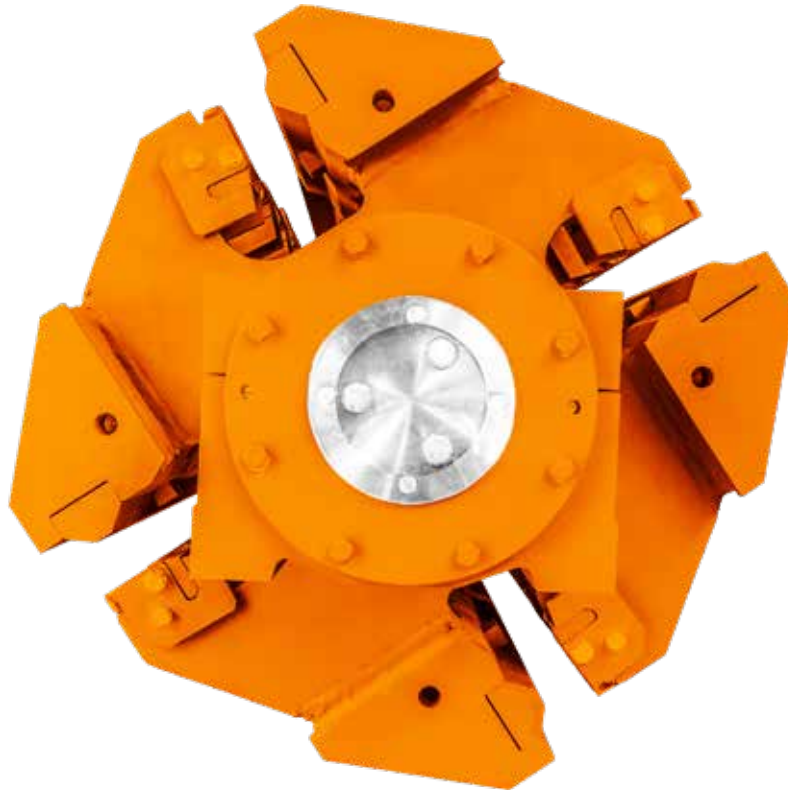


Recycling



ROTOR TECHNOLOGY

The PT Rotor Technology



Every rotor at Prall-Tec goes through a specific manufacturing process, which is designed for the toughest applications and has been continuously developed for decades. The heart of every impact crusher is the rotor, so this is where you should invest most of the time and effort to make our customers' later work as easy as possible. All rotor components are made of tempered steel or forged components. This ensures that no cracks can form in the rotor body, which is not least

prevented by our welding and temperature process. The bearing housings and labyrinths are also manufactured in-house and withstand the impact of foreign pieces inside the crusher and also ensure a long service life for the spherical roller bearings. This rotor together with the latest blow bars and ceramic inlay ensures maximum running time and consistently high production.

QUICK ADJUSTMENTS OF THE CRUSHER

Various options for setting the end product sizes



**Manual crushing gap adjustment
with spring system**



**Crushing gap adjustment with
spacer plates and hydraulic support**



**Grinding gap adjustment with
spacer plates and hydraulic support**



Full hydraulic gap adjustment

The choice of the impact mechanism adjustment can be made depending on the material and frequency of the gap adjustment change. We can use both a conventional spindle system with compression springs or fully hydraulic impact devices with maximum and quick opening of the impact

devices. It plays a special role how often the setting of the machine should be changed and how this setting is done. There is also the option of automatic adjustment via a position measuring system for the cylinders, which means that the gap setting of the impact crusher is constantly self-regulating.

RECYCLING PLANT WITH PT IMPACT CRUSHER

We realize your individual ideas



From the idea across planning and construction, up to building and assembling, we offer a plant construction from a single source. The machine parts are manufactured in our own production in Lengerich and they create a powerful unit together with the impact mill according to your specifications and wishes. The knowledge and experience is reflected in each plant and this way single components are perfectly

matched with each other and provide a good ensemble of all installed machines. Whether a small secondary crusher with reinforced concrete, a crusher station with inflow unit and scalper or a complete plant with impact mills, oscillating conveyor channels, screening machines and conveyor belts – we will realise your ideas and provide our knowledge for a perfect solution.

CORPORATE SUSTAINABILITY

A Sustainably Operating Mechanical Engineering Company

PRALL-TEC



Frederik Teepe

CEO Prall-Tec GmbH



CO2 emissions, climate change, recycling and sustainable raw materials are more important today than ever before and so we at Prall-Tec try to make a contribution to a cleaner world and at the same time create a profitable business for our customers



Sustainability is a central theme throughout the company, which is why we position ourselves as a sustainable mechanical engineering company. Our efficient recycling technology enables us to recover valuable raw materials, conserve CO2 emissions, climate change, recycling and sustainable raw materials are more important today than ever before

and so we at PrallTec try to make a contribution to a cleaner world and at the same time create a profitable business for our customers natural resources and significantly reduce greenhouse gas emissions. We thus make a major contribution to promoting the circular economy and ensuring the environmentally compatible management of waste.

SERVICES

Overview of the Various Services

Construction and Development

From the rotor to the complete recycling plant, we design and develop all our machines and plants in house, prioritizing the wishes and ideas of our customers and incorporating them into the planning. This close cooperation has resulted in various machines for the preparation and processing of a wide range of materials.



Mechanical and plant engineering

Planning, design and construction from a single source. From material feed to screening, whether a production of 20 to 200 tons per hour, quarry, or recycling yard - we fulfill your wishes.



Assembly and service from the manufacturer

The most important thing for us is a well functioning and producing machine at all our customers. If there is sudden damage to your rotor or the plant, this repair has the highest priority for us. Spare parts are permanently in stock to ensure a high availability of your machines. A qualified assembly team takes care of the quick replacement or repair of the components on site.



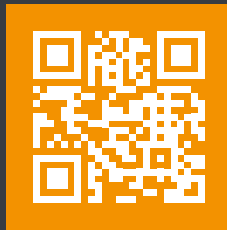
COOPERATION WITH ORBCON

Innovation through cooperation



If you would like more information about our products or recycling solutions, please contact us directly or our partner ORBCON in the USA. If you have any questions

about products, machines or processing plants, we will be happy to assist you in finding the best individual solution for your material.



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